

# Sloan ASSE 1070 Compliant Sensor Faucets with Integrated Thermostatic Mixing Valves (ITM)



**SLOAN**®

# Presenters



**John Lauer**  
Director of Sales – West Coast  
Big Bear, CA



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Sr. Product Line Manager  
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# Agenda

- ASSE 1070 Overview
- Intro to Sloan Optimix™ Faucets
  - Why Integrated Thermostatic Mixers?
  - The new Sloan “ITM” faucets
  - Features and benefits
  - Why are Sloan Optimix Faucets better?
- Summary
- Q & A



# Background

The majority of injuries and deaths involving tap water scalds are to:

- The elderly
- Children under the age of 5

Most adults will suffer third-degree (skin and flesh destroying) burns if exposed to:

Temperature	Time
150°F / 66°C	2 seconds
140°F / 60°C	6 seconds
130°F / 54°C	30 seconds
120°F / 49°C	5 minutes

*Source: U.S. Consumer Product Safety Commission*



# ASSE and ASSE 1070

## ASSE International (American Society of Sanitary Engineers)

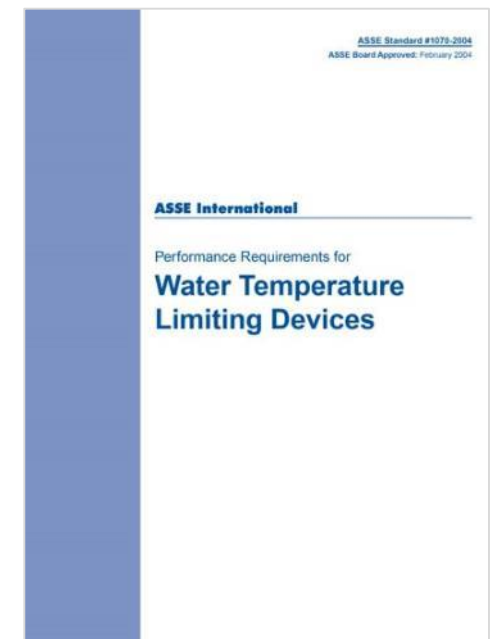
- A leading product and personnel certification agency for companies and individuals representing all disciplines of the plumbing and mechanical industries

## The ASSE 1070 Standard

- Is for devices that limit water temperature to a fixture or fixtures such as sinks, lavatories, or bathtubs to reduce the risk of scalding

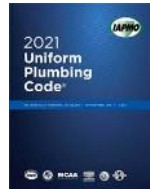
## ASSE 1070/ASME A112.1070/CSA B125.70

- Is a joint harmonization between ASSE 1070-2004 and sections of CSA B125.3-2012



# Anti-Scald Protection is a UPC and IPC Plumbing Code Requirement

## From the 2018 Unified Plumbing Code (UPC)



407.3 Limitation of Hot Water Temperature for Public Lavatories

Hot water delivered from public-use lavatories shall be limited to a maximum temperature of 120 F (49 C) by a device that complies with ASSE 1070/ASME A112.1070/CSA B125.70. The water heater thermostat shall not be considered a control for meeting this provision.

## From 2018 International Plumbing Code (IPC)



419.5 Tempered water for public handwashing facilities

Tempered water shall be delivered from lavatories and group wash fixtures located in public toilet facilities provided for customers, patrons and visitors. Tempered water shall be delivered through an approved water-temperature limiting device that conforms to ASSE 1070/ASME A112.1070 or CSA B125.3

Do not confuse with ASSE 1016, 1017, 1060, or other Mixing Valve Standards

# How is ASSE 1070 Compliance Achieved?



**Sloan MIX-135**

**Thermostatic Mixing Valve (BDT)**

Minimum Flow: 0.25 gpm (1 lpm) @ 0.8 psi (0.55 kPa)  
Maximum Flow: 4.0 gpm (15 lpm) @ 125 psi (862 kPa)



**Sloan MIX-70**

**Thermostatic Mixing Valve**

Minimum Flow: 0.5 gpm (1.9 lpm) @ 0.8 psi (0.55 kPa)  
Maximum Flow: 20 gpm (76 lpm) @ 125 psi (862 kPa)

Why not put a thermostatic mixing valve inside the faucet spout?

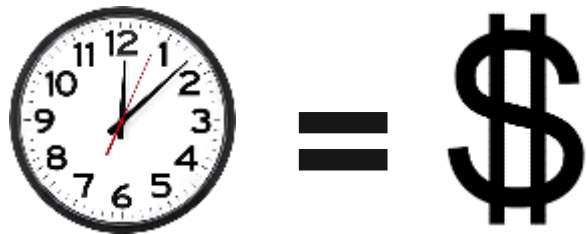
# Introducing Sloan Optimix Faucets





# Why put the ITM in the Spout?

- Keep orders and shipments simple
- Save time and labor
- Make installation easy
- Reduce below-deck clutter



# Nine Models Available



<b>Description</b>	EAF200-P-ITM CP ELECT FAUCET 0.35	EAF200-P-ITM CP ELECT FAUCET 0.5	EAF200-P-ITM CP ELECT FAUCET 1.0	EAF250-ITM CP BATTERY FAUCET 0.35	EAF250-ITM CP BATTERY FAUCET 0.5	EAF250-ITM CP BATTERY FAUCET 1.0	EAF275-ITM CP ELECT FAUCET 0.35	EAF275-ITM CP ELECT FAUCET 0.5	EAF275-ITM CP ELECT FAUCET 1.0
<b>Flow Rate/ Spray Type</b>	0.35 gpm 1.3 lpm MLM	0.5 gpm 1.9 lpm AER	1.0 gpm 3.8 lpm LAM	0.35 gpm 1.3 lpm MLM	0.5 gpm 1.9 lpm AER	1.0 gpm 3.8 lpm LAM	0.35 gpm 1.3 lpm MLM	0.5 gpm 1.9 lpm AER	1.0 gpm 3.8 lpm LAM
<b>Power Supply</b>	EAF-11 Plug Adapter included  EAF-37 and EAF-70 Wall Box Transformers and daisy chain kits available separately			Battery Powered			Solar with Battery Back-up		
<b>Part Number</b>	3335186	3335187	3335188	3335183	3335184	3335185	3335189	3335190	3335191

# How to Identify Optimix Units with ITM



## **EAF-275 Series**

Solar Powered with  
Battery Backup  
Sensor Activated  
Lavatory Faucets



## **EAF-250 Series**

Battery Powered, Sensor  
Activated Lavatory  
Faucets

## **EAF-200 Series**

Adapter Powered, Sensor  
Activated Lavatory  
Faucets



## **EAF-225 Series**

Adapter Powered,  
Sensor Activated  
Lavatory Faucets with  
Temperature Indicating  
Illumination



## **EAF-275 Series**

Solar Powered with  
Battery Backup  
Sensor Activated  
Lavatory Faucets



## **EAF-250 Series**

Battery Powered, Sensor  
Activated Lavatory  
Faucets



## **EAF-200 Series**

Adapter Powered, Sensor  
Activated Lavatory  
Faucets

Cylindrical **ISM** Handle

Scalloped **ITM** Handle

# Sloan Optimix Faucet Benefits

ASSE 1070 compliant Integrated Thermostatic Mixer (ITM) included inside the spout of an above-deck sensor faucet

- ASSE 1070 certified by IAPMO (UPC Listed)
- Included in our most popular above-deck sensor faucets
- Easy to identify
- Multiple flow rates
- Single hole installation
- No changes existing faucet exterior measurements
- Matching soap dispensers available
- Hardwired models can use the new BT Adapter and SloanConnect App



But Wait...  
**THERE'S  
MORE!**

# Sloan Optimix Faucet Benefits

- Only solar-powered ITM unit on the market
- 0.35 and 0.5 gpm units are interchangeable – just change the sprayhead\*

\*1.0 gpm unit is not interchangeable



Solar Energy Harvesting with  
Battery Back-up

But Wait...  
**THERE'S  
EVEN MORE!**

# Why are Sloan Optimix Faucets Better?

**Superior anti-scald technology to all other anti-scald faucets on the market!**

- Responds faster to situations with immediate lack of cold water
- Reacts more effectively to pressure imbalances

Testing data shows competitor units with spikes from 135°-150° F (57° to 66° C)

Sloan Optimix® units shut off immediately – never reaches temperatures above 120° F (49° C)





# Summary



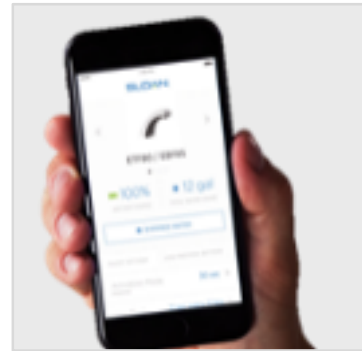
Simplicity



Savings



Size



SloanConnect



Soap



**Superior Performance**



# Questions?

Find your local Sloan representative for more information

## Sloan Rep Locator tool

- Local code knowledge
- Familiarity with existing sites
- Product knowledge
- Available for onsite consultation

### **Sloan Customer Care Center**

Phone: 800.982.5839

Hours: 7:00 AM - 5:00 PM (CST) Monday – Friday

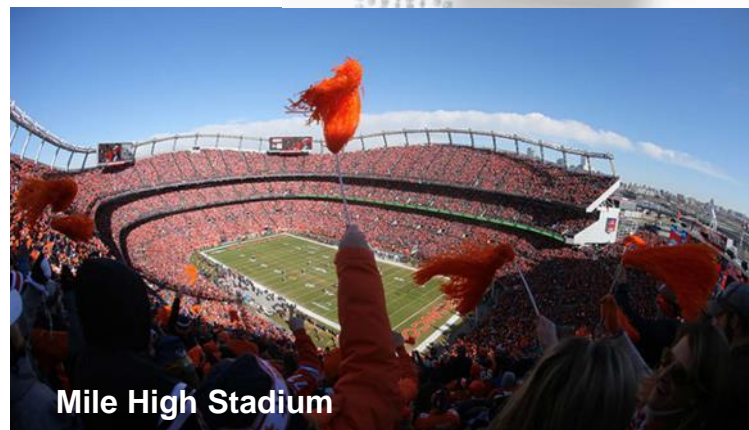
[customer.service@sloan.com](mailto:customer.service@sloan.com)

### **Sloan Technical Support**

P: 888.756.2614

F: 800.737.3061

[techsupport@sloan.com](mailto:techsupport@sloan.com)



# Upcoming Sloan Training Webinars



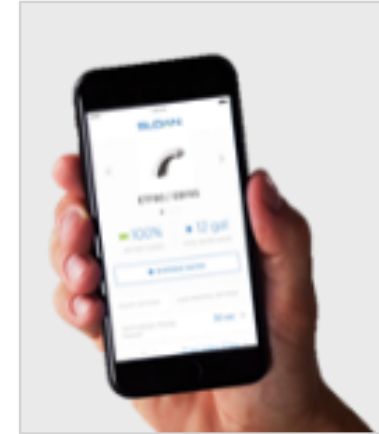
October 29<sup>th</sup>

Tooshlights Commercial  
Restroom Traffic  
Management System



November 5<sup>th</sup>

Manual Piston  
Flushometers – Part 2,  
Flushometer Care and  
Service 101



November 19<sup>th</sup>

Sloan Wireless Product  
Technologies Overview  
and Updates

# Training Comments, Questions, or Suggestions?

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